

RENOCEM FC15

Cementitious Repair Compound

DESCRIPTION

Renocem FC15 is a one part repair compound for structural and cosmetic concrete repairs. **Renocem FC15** is specially developed to be used in precast applications and has a setting time of 15 minutes to suit rapid repair of concrete structures. **Renocem FC15** is a single component cementitious repair compound blended with polymer additives, it requires only the addition of water to give an easy to use mortar for fast setting repairs that develop high early strengths.

APPLICATIONS

Renocem FC15 is used for the repair of in-situ and precast concrete, including the filling of surface voids and blowholes. Can be used at a depth of 5mm.

BENEFITS

- Accelerated strength.
- 15 minute setting times @ 20°C.
- Non-chloride.
- Non-corrosive.
- Multi use.
- Reduced shrinkage.

STANDARDS

Renocem FC15 is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



PROPERTIES

Compressive Strength Class:	R4
Chloride Ion Content:	<0.05%
Adhesive Bond:	>2.0 MPa
Restrained Shrinkage:	>2.0 MPa
Elastic Modulus:	>25.0 GPa
Freeze Thaw:	>2.0 MPa
Capillary Absorption:	<0.5 kg m ⁻² h ^{-0.5}
Compressive Strength:	EN 12190:1999
	28 days: 50 N/mm ²
Minimum Application Temperature:	5°C

YIELD

Renocem FC15 will yield 12.75 litres for a 25kg pack.

WORKABILITY TIME

Temperature	Minutes
5°C	40
10°C	25
20°C	15

Ensure that the material is placed during its open life, discard hardened materials. Do not re-temper.

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COMPATIBILITY

Renocem FC15 is compatible with all types of EN 197 cement systems.

STORAGE

Renocem FC15 should be protected from extreme temperature, frost and direct sunlight, the product has a minimum shelf life of 12 months. Moisture ingress will cause the product to harden.

HANDLING

Please refer to the **Renocem FC15** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

PACKAGING

Supplied in 25kg bags.

NOTES

Preparation: Ensure the substrate is free from oil, grease or other contaminants. Thorough saturation of the repair area with clean water is essential to ensure full adhesive bond of the mortar. Ensure that no free water remains before starting the mortar application.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

Priming: Thoroughly soak the substrate with clean water in advance of the application. Apply a brushed slurry application of **Renocem FC15** / water to the pre-soaked repair area at the ratio of 4:1 by volume.

Mixing: The product should be mixed in a clean vessel with clean tap water. Use a mechanical mixer with a slow speed drill and paddle. Place 3.0 litres of water into the container then add the powder to the water to produce the required consistency adding up to a further 0.35 litres of water if needed. Smaller mixes can be made by hand using the above ratio (max 15% water by volume). Excess water addition may result in shrinkage and cracking.

Placing: Ensure that the material is placed during its workability time. Discard hardened material. Do not re-temper. The material can be applied by trowel, or by hand. When the product is used to fill blowholes, rub the material into the pores directly using a cloth or scrape it in with a trowel. Remove all excess material. If larger voids are to be repaired coarse sand or a fine aggregate may be added up to 50/50 to the mortar to extend the **Renocem FC15**. In such cases, setting time and final strengths may be affected. Wash all tools with water before the mortar hardens.

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